

# PIPELINE SYSTEMS: DESIGN, CONSTRUCTION, MAINTENANCE AND ASSET MANAGEMENT

*“Ensuring Safe, Efficient, and Reliable Pipeline Operations”*

## Schedule

Date	Venue	Fees (Online)
03 - 04 Jun 2026	Online	USD 700 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

## Introduction

Pipeline systems are the backbone of the oil, gas, and energy industries, requiring careful design, construction, maintenance, and asset management to ensure safety, reliability, and efficiency. This course provides participants with a comprehensive understanding of pipeline engineering principles, construction practices, maintenance strategies, and asset management approaches. Attendees will gain the knowledge necessary to manage pipeline projects effectively while ensuring regulatory compliance and operational excellence.

Through interactive online sessions, case studies, and practical exercises, participants will develop the ability to design, maintain, and manage pipeline systems with a focus on safety, performance, and long-term asset integrity. The course emphasizes real-world applications and best practices for optimizing pipeline operations across their lifecycle.

## Objectives

By the end of this course, participants will be able to:

- Understand the principles of pipeline system design and construction.
- Apply maintenance and inspection techniques to ensure operational integrity.
- Implement asset management strategies for pipelines.
- Evaluate pipeline performance and identify potential risks.
- Ensure compliance with industry standards and regulatory requirements.
- Optimize pipeline safety, reliability, and operational efficiency.

## Why Attend

Participants should attend this course to:

- Gain practical knowledge of pipeline design, construction, and maintenance.
- Improve safety and reliability of pipeline operations.
- Learn effective asset management strategies for pipelines.
- Enhance compliance with industry standards and regulations.
- Apply best practices for long-term operational performance.

## Target Audience

This program is designed for:

- Pipeline engineers and project managers
- Maintenance and operations personnel
- Asset management professionals
- Safety and integrity engineers
- Professionals responsible for pipeline design, construction, and maintenance

## Individual Benefits

Key competencies that will be developed include:

- Pipeline design and construction principles
- Maintenance planning and inspection techniques
- Asset management strategies and lifecycle optimization
- Risk identification and mitigation for pipeline systems
- Understanding regulatory compliance and industry standards

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved pipeline safety, reliability, and performance
- Effective maintenance and asset management practices
- Compliance with regulatory and industry standards
- Reduced operational risks and downtime
- Optimized lifecycle management for pipeline systems

## Instructional Methodology

The course follows a blended online learning approach combining theory with practical application:

- Strategy Briefings – Overview of pipeline system design, construction, and maintenance
- Case Studies – Real-world examples of pipeline operations, failures, and best practices
- Workshops – Exercises on design evaluation, maintenance planning, and asset management
- Peer Exchange – Group discussions on challenges, solutions, and lessons learned
- Tools – Templates for pipeline design, inspection, maintenance, and asset management planning

## Course Outline

Detailed 2-Day Course Outline

Training Hours: 9:00 AM - 5:00 PM Daily Format: 3-4 Learning Modules | Online Breaks: 11:00 & 03:00

Day 1: Pipeline Design and Construction

Module 1: Introduction to Pipeline Systems (09:00 - 11:00)

- Overview of pipeline types and applications
- Design principles and standards
- Construction methods and project planning

Module 2: Maintenance and Inspection Techniques (11:15 - 01:00)

- Preventive and predictive maintenance
- Inspection methods and integrity assessment
- Operational safety considerations

Day 2: Asset Management and Optimization

Module 3: Pipeline Asset Management (01:45 - 03:00)

- Lifecycle management and asset optimization
- Risk assessment and mitigation strategies
- Monitoring and performance evaluation

Module 4: Case Studies and Best Practices (03:15 - 05:00)

- Real-world pipeline project examples
- Lessons learned and operational improvements
- Action planning for enhanced pipeline management

## Certification

Participants will receive a Certificate of Completion in Pipeline Systems: Design, Construction, Maintenance and Asset Management, validating their expertise in pipeline engineering, operational management, maintenance, and asset optimization.

## Why Choose MAWA Events

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